What is claimed is:

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A switching power source apparatus comprising:

a switching output circuit for outputting a DC output voltage converted from a DC power source voltage by a semiconductor switch which is on-off controlled;

error amplifying means for comparing said DC output voltage with a reference voltage to generate a feedback signal which decreases as said DC output voltage increases;

a current detecting circuit for detecting an output current flowing through said switching output circuit to generate a current detecting signal which decreases as said output current increases; and

a PWM comparator, to which said feedback signal and said current detecting signal are inputted as comparison signals and a triangular wave signal is inputted as a reference signal, for comparing a lower signal of said comparison signals and said triangular wave signal to output a PWM signal,

wherein said semiconductor switch is on-off controlled by said PWM signal.

 The switching power source apparatus according to claim 1,

wherein said current detecting signal is outputted

through a low-pass filter.

- 3. The switching power source apparatus according to claim 2,
- 5 wherein said low-pass filter includes:
 - a resistor provided between an input side and an output side;
 - a capacitor between said output side and a reference point; and
- a semiconductor switch for charge discharging, which is connected in parallel to said capacitor, to be turned on when a voltage on the input side becomes lower than a voltage on the output side.